



BUILDING INSULATION BLANKET

B.I.B (Plain)
F.F.B.I.B (Foil Faced)
FOR TROPICAL CONDITIONS

PRODUCT DESIGN

Glasswool Building Insulation Blanket consists of long, fine glass fibres bonded together with a thermosetting resin to form a lightweight, flexible, blanket insulation. All blankets are 1200mm wide, and are available in three thicknesses - 50mm, 75mm, and 100mm and can be supplied with a factory applied vapour barrier.

APPLICATIONS

Building Insulation Blanket is designed for use under any roof system supported on purlins with either metal or fibrous claddings, to provide thermal control within the building. Where the possibility of condensation exists a vapour barrier should be installed on the warm side of the insulation (usually the top side in tropical conditions).

BENEFITS

Lower Operating Costs. The low thermal conductivity of BIB provides excellent thermal insulation, thus reducing the running costs of heating and air conditioning equipment.

Lower Installation Costs. Large blanket sizes provide reduces installation times and thus cheaper installation costs.

Increased Insulation Efficiency. Large blanker areas increase insulation efficiency as the potential for heat leaks through joins is reduced.

Non Corrosive. Inorganic fibres will not cause nor accelerate corrosion of any metal.

Fire Safe. Glass fibres will not burn nor support combustion.

PHYSICAL PROPERTIES

Thermal Conductivity. BIB has excellent thermal insulation properties, which will reduce heat loss through the building structure.

Nominal Thickness	Thermal Conductivity	Nominal Product Thermal Resistance
50mm	0.040 W/m ⁰ C	1.35 m ² °C/W
75mm	0.040 W/m ⁰ C	1.9 m ² °C/W
100mm	0.040 W/m ⁰ C	2.5 m ² °C/W

Maximum Service Temperature. BIB is designed for use at ambient temperatures and should NOT be used in conditions where the temperature exceeds 120°C.

Vapour Transmission. Plain Building Blanket is vapour transparent. Application of a vapour barrier i.e. Flamestop® 524 foil, will provide any necessary vapour protection.

Bacteria and Fungus Growth. Glasswool insulation does not promote now sustain bacterial or fungal growth.

Moisture Absorption (BS 2972/1961). Less than 0.2% by volume when held for 96 hours in and atmosphere of 95% relative humidity.

ACOUSTIC PERFORMANCE

BIB or FFBIB, when installed in wall or roof cavities, will perform as an acoustic material by providing cavity absorption and helping reduce sound transmission through walls, floors and ceilings (partially under long run roofing where rain drum can be greatly reduced). Tested results are available for absorption performance. *Acoustic Benefits ISO 354 (1985) Method ASTM C 423-84a. NRC determination.*

EARLY FIRE HAZARD

Made of glasswool bonded with a non-flammable resin, BIB simply cannot burn, and their fire resistance is permanent. Test results are available for BIB Plain, and Flamestop® 524. To AS 1530 Part 3 1976.

Ignitability Index	(0 - 20)	0
Spread of Flame Index	(0 - 10)	0
Heat Evolved Index	(0 - 10)	0
Smoke Developed Index	(0 - 10)	0

DESIGN CALCULATIONS

Tasman Insulation New Zealand staff are available to assist you with your design calculations.

Packaging. Building Insulation Blanket is compression and vacuum packed in easy to transport polythene bags. The method of packaging may vary at the manufacturers discretion.

Product Size	Blanket	Area	Facing Options
BIB Plain 50mm	1.2m x 12m	14.4m ²	Flamestop® 524
BIB Plain 75mm	1.2m x 12m	14.4m ²	Flamestop® FSK 300 Harvi-Foil® 425
BIB Plain 100mm	1.2m x 12m	14.4m ²	Harvi-Kraft 300

